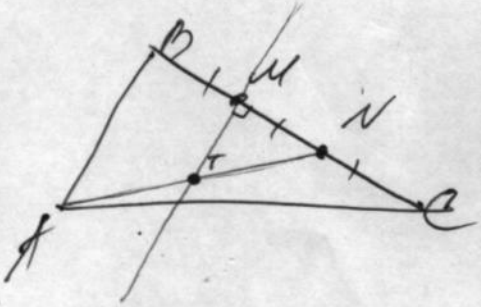
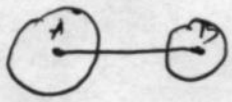




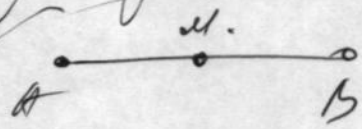
$x^2+y^2+2x-3=0.$

$(x^2+2x+1)+y^2-1-3$

$(x+1)^2+y^2=4.\ (1)$ центр: $(-1;0)$, $R=2$

$(x-1)+y^2=2.\ (2)$ центр: $(1;0)$, $R=\sqrt{2}$

$S=AB=\sqrt{1}$



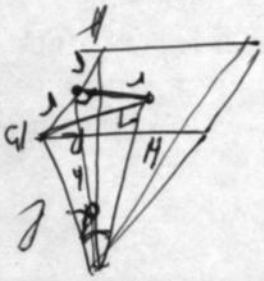
$M\left(\frac{x_B-x_A}{2};\ \frac{y_B-y_A}{2};\ \frac{z_B-z_A}{2}\right)$

$\frac{x_B-x_A}{2}=\frac{x_B-1}{2}=-2. \Rightarrow x_B=-4+1=-3$

$\frac{y_B-3}{2}=4 \Rightarrow y_B=8+3=11$

$\frac{z_B+2}{2}=5 \Rightarrow z_B=10-2=8$

$B(-3;11;8)$



$S_{бок}=\cancel{S_{осн}+S}$ по т. Пифагора $H^2=l^2-R^2=l^2-l^2\sin^2\alpha=l^2(1-\sin^2\alpha)=$
$=l^2\cos^2\alpha$

$R=l\sin\alpha \Rightarrow$ рис. в профиле

$r=R\frac{\sqrt{2}}{2}=\frac{l\sqrt{2}\sin\alpha}{2}$

$AB=2S=\frac{\sqrt{2}\cdot l\sin\alpha}{2}$

по т. Пифагора

$\text{диагональ } h^2=H^2+r^2=l^2\cos^2\alpha+\frac{l^2\sin^2\alpha}{2}=$

$=\frac{2l^2\cos^2\alpha+l^2\sin^2\alpha}{2}=\frac{l^2(2\cos^2\alpha+\sin^2\alpha)}{2}=$

$=\frac{l^2(2\cos^2\alpha+1-\cos^2\alpha)}{2}=\frac{l^2(1+\cos^2\alpha)}{2}$

$S_{\triangle AMB}=\frac{1}{2}MH\cdot AB=\frac{1}{2}\cdot\frac{l\sqrt{1+\cos^2\alpha}}{2}\cdot\frac{\sqrt{2}\,l\sin\alpha}{2}=$

$=\frac{l^2}{2}\cdot\sin\alpha\cdot\sqrt{1+\cos^2\alpha}$

$S_{бок}=4\cdot S_{треуг}=2l^2\sin\alpha\cdot\sqrt{1+\cos^2\alpha}$